

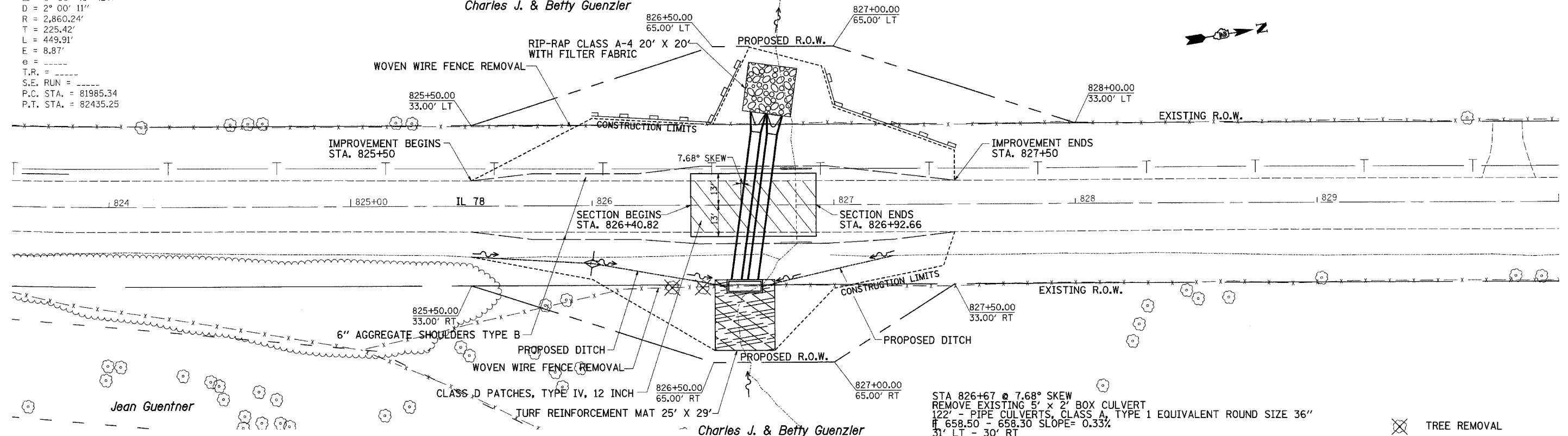
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	11T	CARROLL	79	24
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STA. 826 + 67.23

DOUBLE CELL EQRS 36" PRECAST CULVERT PIPES

Charles J. & Betty Guenzler

EXIST. CURVE 1320
 PI STA. = 82210.76
 $\Delta = 9^\circ 00' 45''$ (LT)
 $D = 2^\circ 00' 11''$
 $R = 2,860.24'$
 $T = 225.42'$
 $L = 449.91'$
 $E = 8.87'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 81985.34$
 $P.T. STA. = 82435.25$

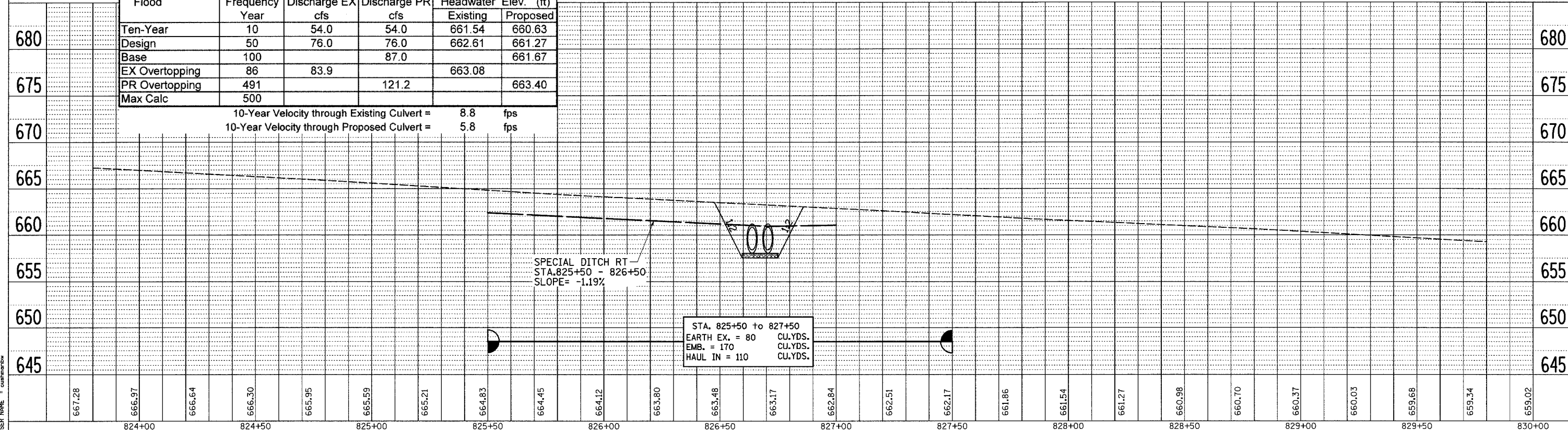


STA 826+67 @ 7.68° SKEW
 REMOVE EXISTING 5' x 2' BOX CULVERT
 122' - PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND SIZE 36"
 $H = 658.50 - 658.30$ SLOPE = 0.33%
 $31' LT - 30' RT$
 2 EA. PRECAST FLARED END SECTIONS EQUIVALENT ROUND SIZE 36"
 DROP BOX NO. 2 RT WITH PIPE HANDRAIL

- TREE REMOVAL
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK

Drainage Area EX =	21.6	Acres	Drainage Area PR =	21.6	Acres
Existing Low Grade Elevation:	663.09	ft. @	826+83.		
Proposed Low Grade Elevation:	663.39	ft. @	826+76.		
Flood Year	Frequency	Discharge EX	Discharge PR	Headwater Elev. (ft)	
		cfs	cfs	Existing	Proposed
Ten-Year	10	54.0	54.0	661.54	660.63
Design	50	76.0	76.0	662.61	661.27
Base	100		87.0		661.67
EX Overtopping	86	83.9		663.08	
PR Overtopping	491		121.2		663.40
Max Calc	500				

10-Year Velocity through Existing Culvert = 8.8 fps
 10-Year Velocity through Proposed Culvert = 5.8 fps



STA. 825+50 to 827+50
 EARTH EX. = 80 CU.YDS.
 EMB. = 170 CU.YDS.
 HAUL IN = 110 CU.YDS.

PLAN

DATE	
BY	
REVISION	
NOTED	
ALIGNED	
CHECKED	
DATE	
FILE NAME	
NO.	

PROFILE

DATE	
BY	
REVISION	
NOTED	
GRADES	
CHECKED	
STRUCTURE	
NOTATION	
CHKD	
FILE NAME	
NO.	

PLOT DATE = Wed Oct 19 15:24:48 2007
 FILE NAME = c:\pwork\64d82\64d82.dwg
 USER NAME = csharabx